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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,322	07/01/2004	Radu Calinescu	SYCH 1110-1	4321
44654 7590 01/02/2009 SPRINKLE IP LAW GROUP 1301 W. 25TH STREET SUITE 408 AUSTIN, TX 78705			EXAMINER KEEHN, RICHARD G	
			ART UNIT 2456	PAPER NUMBER
			MAIL DATE 01/02/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/710,322

Applicant(s)

CALINESCU ET AL.

Examiner

Richard G. Keehn

Art Unit

2456

Period for Reply -- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 and 60-71 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 and 60-71 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-85/86)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claims 1-28 and 60-71 have been examined and are pending.

This Office Action is made Final.

Response to Arguments

1. Applicant's cancellation with arguments, see Page 11, filed 10/30/2008, with respect to the rejection of Claim 72 under 35 U.S.C. 101 have been fully considered and are persuasive. The rejection of Claim 72 has been withdrawn.
2. Applicant's amendments with arguments, see Page 11, filed 10/30/2008, with respect to the rejection of Claim 6 under 35 U.S.C. 112 have been fully considered and are persuasive. The rejection of Claim 6 has been withdrawn.
3. Applicant's arguments with respect to claims 1-28 and 60-72 have been considered but are moot in view of the new ground(s) of rejection.

Specification

4. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The amended claim language "the behavior of the system" is not described in the specification in such a manner as to allow one of ordinary skill in the art at the time the invention was made to understand what Applicant means by "behavior." Examiner will have to use the broadest reasonable interpretation.

Claim Rejections - 35 USC § 103

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
6. Claims 1-3 and 6-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,498,786 B1 (Kirkby et al.), and further in view of US 2003/0126202 A1 (Watt).

As to Claim 1, Kirkby et al. disclose a system for allocating resources amongst a plurality of applications, the system comprising:

a monitoring module at each [...] for detecting demands for one or more resources [...] (Kirkby et al. – Column 4, lines 3-13 recite bandwidth being allocated by each local controller detecting and taking into account the relative demands of all of the resources in the network) and exchanging information regarding demands for the one or more resources at the plurality [...] (Kirkby et al. – Column 3, lines 39-40 recite the plurality of users exchanging their input which effects demand on the system);

a distributed [...] policy for allocation of resources of the plurality of computers amongst the plurality of applications having access to the resources, wherein the policy is based on the demands for the one or more resources and adapted based on changes in the behavior of the system (Kirkby et al. – Column 1, lines 6-13 and Column 3, lines 37-47 and Column 6, lines 63-67 and Column 5, lines 19-22 and Column 14, lines 44-46 recite the policy based on proportional fairness and user input to control resource allocation amongst the distributed network's resources; Column 3, line 52 recites the

distributed embodiment, the demands being generated by willingness to pay and behavior of the system being the way in which the system changes its behavior based on, inter alia, user input); and

an enforcement module at each computer for allocating the resources amongst the plurality of applications [...] (Kirkby et al. – Column 3, lines 37-52 recite the controller determining how the users' willingness to pay are to be divided between the resources in order to determine the relative demands for the resources. Each resources is then divided based on the policy of fairness based on willingness to pay for resources. A user interface is provided to allow the user to influence the allocation by changing the willingness to pay).

Kirkby et al. do not explicitly disclose, but Watt discloses

a distributed server pool director for organizing and maintaining a set of servers in a server pool (Watt – Page 4, ¶ [0049] recites the server pool load manager making decisions based on policy created by the administrator {policy engine} for a set of servers in a server pool);

server in the server pool (Watt – Page 4, ¶ [0049] recites the server);

plurality of servers (Watt – Page 4, ¶ [0049] recites the servers in a server pool);

located on the server (Watt – Page 4, ¶ [0049] recites the server);

policy engine for specifying a policy (Watt – Page 4, ¶ [0049] recites the administrator {policy engine} for a set of servers in a server pool); and

based on a decision made by the policy engine (Watt – Page 6, ¶ [0089] recites the administrator policy-based decisions; ¶ [0107] recites a Failure policy; ¶ [0118]

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recites a Takeover policy; ¶ [0121] recites a Replace policy; ¶ [0124] recites a Server Relative Cost policy).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine server pool management taught by Watt, with policy-based resource management in distributed systems taught by Kirkby et al., in order to streamline resource allocation and provisioning (Watt- Abstract).

As to Claim 2, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the resources include communication resources (Kirkby et al. - Column 1, lines 6-13 recite the resources including network bandwidth resources).

As to Claim 3, the combination of Kirkby et al. and Watt discloses the system of claim 2, wherein the communication resources include network bandwidth (Kirkby et al. - Column 1, lines 6-13 recite the resources including network bandwidth resources).

As to Claim 6, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the policy engine receives user input for defining an application subject to the policy (Kirkby et al. – Column 3, lines 47-52 recite the user input to modify willingness to pay for resources).

As to Claim 7, the combination of Kirkby et al. and Watt discloses the system of claim 6, wherein the monitoring module identifies an application running at a given

computer based, at least in part, upon the user input for defining the application (Kirkby et al. – Column 6, lines 49-67 recite the iterative commands executed to reallocate resources based on monitored changes in user input values for defining user willingness to pay to the fairness policy function).

As to Claim 8, the combination of Kirkby et al. and Watt discloses the system of claim 7, wherein the monitoring module detects a request for resources by the application at the given computer (Kirkby et al. – Column 6, lines 49-67 recite the iterative commands executed to reallocate resources based on monitored changes in user input values for defining user willingness to pay to the fairness policy function e.g. user is added).

As to Claim 9, the combination of Kirkby et al. and Watt discloses the system of claim 6, wherein the user input includes defining components of an application (Kirkby et al. – Column 10, lines 27-41 recite the user defining the time of transfer and amount of bandwidth for the application).

As to Claim 10, the combination of Kirkby et al. and Watt discloses the system of claim 9, wherein the components include a selected one of processes, network traffic, and J2EE components (Kirkby et al. – Column 10, lines 27-41 recite the user defining the time of transfer and amount of bandwidth which define network traffic for the application).

As to Claim 11, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the policy engine receives user input of a policy specifying actions to be taken for allocation of the resources in response to particular conditions (Kirkby et al. – Column 6, lines 49-67 recite the iterative commands executed to reallocate resources based on changes in input values to the fairness policy function).

As to Claim 12, the combination of Kirkby et al. and Watt discloses the system of claim 11, wherein the policy includes a command to be run in response to a particular condition (Kirkby et al. – Column 6, lines 49-67 recite the iterative commands executed to reallocate resources based on changes in input values to the fairness policy function).

As to Claim 13, the combination of Kirkby et al. and Watt discloses the system of claim 11, wherein the policy includes an attribute indicating when a particular condition of the policy is to be evaluated (Kirkby et al. – Column 6, lines 49-67 recite the attribute of WtP, any change of which invokes the policy to redefine allocations based on the changes in either resources available or user willingness to pay for resources).

As to Claim 14, the combination of Kirkby et al. and Watt discloses the system of claim 13, wherein the policy includes an attribute indicating when action is to be taken based upon a particular condition of the policy being satisfied (Kirkby et al. – Column 6,

lines 49-67 recite the attribute of WtP, any change of which invokes the policy to redefine allocations based on the changes in either resources available of user willingness to pay for resources).

As to Claim 15, the combination of Kirkby et al. and Watt discloses the system of claim 11, wherein the policy specifies priorities of the plurality of applications to the resources (Kirkby et al. – Column 3, lines 45-64 recite user application priority set based on willingness to pay, and the distributed method of resource allocation based on the priorities the users set, based on willingness to pay).

As to Claim 16, the combination of Kirkby et al. and Watt discloses the system of claim 15, wherein the enforcement module allocates resources amongst the plurality of applications based, at least in part, upon the specified priorities (Kirkby et al. – Column 3, lines 45-64 recite user application priority set based on willingness to pay, and the distributed method of resource allocation based on the priorities the users set, based on willingness to pay).

As to Claim 17, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the policy engine includes a user interface for a user to specify the policy (Kirkby et al. – Column 3, lines 47-49 recite the user interface that affects implementation of the fairness policy).

As to Claim 18, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the policy engine supports an expression language for policy definition (Kirkby et al. – Column 3, lines 47-49 recites the user expressing his/her willingness to pay which is used to define the fairness policy algorithm).

As to Claim 19, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the policy engine is a distributed system operating at each of the plurality of computers (Kirkby et al. – Column 3, lines 49-52 recite embodiments of control either by a central control system or distributed control system).

As to Claim 20, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the monitoring module determines resources available at each computer (Kirkby et al. – Column 4, lines 3-13 recite bandwidth being allocated by each local controller taking into account the relative demands of all of the resources in the network; Alternatively, Kirkby et al. also recite in Column 3, lines 40-50 that a central controller can be used for monitoring in the non-distributed embodiment).

As to Claim 21, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the monitoring module determines resource utilization at each computer (Kirkby et al. – Column 3, lines 37-52 recite resource utilization is factored in with user fairness to allocate resources).

As to Claim 22, the combination of Kirkby et al. and Watt discloses the system of claim 21, wherein the monitoring module at each computer exchanges resource utilization information amongst the plurality of computers (Kirkby et al. – Column 6, lines 49-67 recite iterative recalculation of network user resources based on demand and capacities).

As to Claim 23, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the enforcement module allocates network bandwidth amongst said plurality of applications based upon the policy and information regarding demands for the resources (Kirkby et al. – Column 3, lines 37-52 recite the controller determining how the users' willingness to pay are to be divided between the resources in order to determine the relative demands for the resources. Each resources is then divided based on the policy of fairness based on willingness to pay for resources. A user interface is provided to allow the user to influence the allocation by changing the willingness to pay; Column 1, lines 6-13 recite the resources including network bandwidth resource).

As to Claim 24, the combination of Kirkby et al. and Watt discloses an invention substantially as claimed, including the system of claim 1, wherein the enforcement module allocates processor resources amongst said plurality of applications based upon the policy and information regarding demands for the resources (Kirkby et al. – Column 4, lines 3-8 recite bandwidth allocated based on local and network demands).

As to Claim 25, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the enforcement module includes an interface for communication with an external module for specifying allocation of resources by said external module (Kirkby et al. – Column 3, lines 49-64 recite distributed control for resource allocation).

As to Claim 26, the combination of Kirkby et al. and Watt discloses the system of claim 25, wherein said external module includes a load balancer for load balancing instances of an application (Kirkby et al. - Column 6, lines 63-67 recite balancing the load after changes to the policy function inputs are received).

As to Claim 27, the combination of Kirkby et al. and Watt discloses the system of claim 25, wherein said external module comprises a selected one of a router and a provisioning device (Kirkby et al. – Column 5, lines 10-23 and Column 10, lines 9-14 recite the local network managers in the distributed system determining routing information which defines resources needed, and provisions the routing application).

As to Claim 28, the combination of Kirkby et al. and Watt discloses the system of claim 1, wherein the enforcement module starts an instance of an application on a given computer based upon the policy and information regarding demands for the resources (Kirkby et al. – Column 5, lines 10-23 and Column 10, lines 9-14 recite the local network managers in the distributed system determining routing information which defines

resources needed, and provisions the routing application. The route is defined by applying the policy algorithm based on user priority input).

7. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,498,786 B1 (Kirkby et al.), and further in view of US 5,414,845 (Behm et al.).

As to Claim 4, the combination of Kirkby et al. and Watt discloses the system of claim 1.

The combination of Kirkby et al. and Watt does not explicitly disclose, but Behm et al. disclose wherein the resources include processing resources (Note: Applicant defined processing resources as CPU; Behm et al. - Column 4, lines 2-4 recite distributed execution of programs).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine wherein the resources include processing resources taught by Behm et al., with a plurality of computers connected to one another through a network, a policy engine for specifying a policy for allocation of resources of the plurality of computers amongst a plurality of applications having access to the resources, a monitoring module at each computer for detecting demands for the resources and exchanging information regarding demands for the resources at the plurality of computers, and an enforcement module at each computer for allocating the resources amongst the plurality of applications based on the policy and information

regarding demands for the resources taught by the combination of Kirkby et al. and Watt.

One of ordinary skill in the art at the time the invention was made would have been motivated to implement fair share resource management not only with bandwidth optimization, but also locating, allocating and delivering resources or services while respecting policy requirements for load-balancing, fair share scheduling, and optimal usage of resources (Behm et al. - Column 1, lines 30-36)

As to Claim 5, the combination of Kirkby et al. and Watt discloses the system of claim 1.

The combination of Kirkby et al. and Watt does not explicitly disclose, but Behm et al. disclose wherein the resources include a selected one of memory, disk space, system I/O (input/output), printers, tape drivers, and software licenses (Behm et al. – Column 4, lines 43-58 recite the resource of a software license for Gaussian).

The motivation and obviousness arguments are the same as in Claim 4.

8. Claims 60-64, 66-67, 70 and 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,766,348 B1 (Combs et al.), and further in view of US 2003/0069972 A1 (Yoshimura et al.) and US 2003/0126202 A1 (Watt).

As to Claim 60, Coombs et al. disclose a method for allocating resources to a plurality of applications, the method comprising:

receiving user input specifying priorities of the plurality of applications to resources of a plurality of servers, the specified priorities including designated servers assigned to at least some of the plurality of applications (Combs et al. – Column 11, lines 4-6 and 35-36 and Column 10, lines 29-31 recite the user setting service priorities for service applications and setting serving resources for each service application to be performed);

selecting a given application based upon the specified priorities of the plurality of applications (Combs et al. – Column 10, lines 32-34 recite the RAFS performing services in order of priority from highest to lowest);

allocating to the application resources located on one or more of the plurality of servers based on the policy for allocation of resources (Combs et al. – Column 11, lines 35-38 recite the allocation of resources and priority designated to the service task); and

repeating above steps for each of the plurality of applications based on the specified priorities (Combs et al. – Column 10, lines 32-34 recite the RAFS performing services in order of priority from highest to lowest).

Combs et al. do not explicitly disclose, but Yoshimura et al. disclose

allocating additional resources to the application until the application's demands for resources are satisfied (Yoshimura et al. – Figure 32, items 3201, 3202, 3209, 3210, 3212, 3214 and 3216 recite the iterative process of adding available application compatible servers {resources} until demands are met or until the service level agreement is maximized).

Combs et al. do not explicitly disclose, but Watt discloses

determining the demand for one or more resources located on each server in a plurality of communicatively connected servers (Watt – Page 6, ¶ [0091] recites determining the over and under-load conditions in a server pool); and

specifying a policy for allocation of resources of the plurality of servers (Watt – Page 4, ¶ [0049] recites the server pool load manager making decisions based on policy created by the administrator {policy engine} for a set of servers in a server pool).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine allocating additional resources to the application until the application's demands for resources are satisfied taught by Yoshimura et al., with allocating to the application any available servers which are designated servers assigned to the application; and repeating above steps for each of the plurality of applications based on the specified priorities taught by Combs et al.

One of ordinary skill in the art at the time the invention was made would have been motivated to reduce the load of the managers of a data center and a user when a network is changing dynamically (Yoshimura et al. – Page 1, ¶ [0010]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine determining the demand for one or more resources located on each server in a plurality of communicatively connected servers; and specifying a policy for allocation of resources of the plurality of servers taught by Watt, with allocation of resources taught by Combs et al., in order to streamline resource allocation an provisioning process (Watt – Abstract).

As to Claim 61, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, wherein the receiving step includes receiving user input of a value for a given application representing relative priority of the given application compared to other applications (Combs et al. – Column 11, lines 4-6 and 35-36 and Column 10, lines 29-31 recite the user setting service priorities for service applications and setting serving resources for each service application to be performed).

As to Claim 62, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, wherein the receiving step includes receiving a ranking of the plurality of applications from highest priority to lowest priority (Combs et al. – Column 10, lines 32-34 recite the RAFS performing services in order of priority from highest to lowest).

As to Claim 63, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 62, wherein the step of selecting a given application includes commencing with selection of an application having the highest priority (Combs et al. – Column 10, lines 32-34 recite the RAFS performing services in order of priority from highest to lowest).

As to Claim 64, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, further comprising:

powering on a server allocated to an application if the server is in a powered off state (Yoshimura et al. – Figure 32, item 3212 recites turning on a server to be allocated to an application; Item 3207 recites turning off a server de-allocated from an application).

The motivation and obviousness arguments are presented in Claim 60.

As to Claim 66, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, further comprising:

adding a server newly allocated to an application to a set of servers across which the application is load balanced (Yoshimura et al. – Figure 32, item 3214 and 3215 recite updating the VLAN table with the added server; Abstract recites VLAN load balancing).

The motivation and obviousness arguments are presented in Claim 60.

As to Claim 67, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, further comprising:

removing a server no longer allocated to an application from a set of servers across which the application is load balanced (Yoshimura et al. – Figure 32, item 3212 recites turning on a server to be allocated to an application; Item 3207 recites turning off a server de-allocated from an application; Abstract recites VLAN load balancing).

The motivation and obviousness arguments are presented in Claim 60.

As to Claim 70, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, wherein said allocating step includes starting an instance of an application on a given computer (Yoshimura et al. – Figure 32, items 3210-3215 recites the allocation of the server and startup of the application on the allocated server).

The motivation and obviousness arguments are presented in Claim 60.

As to Claim 71, the combination of Combs et al., Yoshimura et al. and Watt discloses luding a computer-readable medium having processor-executable instructions for performing the method of claim 60 (Combs et al. – Column 2, line38 recites the system).

9. Claims 65, 68 and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Combs et al., Yoshimura et al. and Watt as applied to claim 60 above, and further in view of US 2005/0177755 A1 (Fung).

As to Claim 65, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60; and

determining whether an application is inactive on a server allocated to the application (Yoshimura et al. – Figure 32, items 3201 and 3202 recite determining the activity of a server).

The combination of Combs et al., Yoshimura et al. and Watt does not explicitly disclose, but Fung discloses initiating a resume script for running the application on the server application is determined to be inactive (Fung - Page 5. ¶ [0038] recites issuing the resume command of an inactive server).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine initiating a resume script for running the application on the server application is determined to be inactive taught by Fung, with allocating any additional available servers to the given application until the given application's demands for resources are satisfied taught by the combination of Combs et al., Yoshimura et al. and Watt.

One of ordinary skill in the art at the time the invention was made would have been motivated to wake up an inactive server for use (Fung - Page 5. ¶ [0038]).

As to Claim 68, the combination of Combs et al., Yoshimura et al. and Watt discloses the method of claim 60, further comprising:

determining whether a server no longer allocated to an application (Yoshimura et al. – Figure 32, items 3201 and 3202 recite determining the activity of a server)

The combination of Combs et al., Yoshimura et al. and Watt does not explicitly disclose, but Fung discloses determining whether a server is in a suspend set of servers designated for the application (Fung – Page 2, ¶ [0021] recites nodes having different power modes); and

running a suspend script if the server is determined to be in the suspend set of servers (Fung – Page 17, ¶ [0133] recites running the suspend function on a node to put it into the suspend state).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine determining whether a server is in a suspend set of servers designated for the application (Fung – Page 2, ¶ [0021] recites nodes having different power modes); and

running a suspend script if the server is determined to be in the suspend set of servers taught by Fung, with determining whether a server no longer allocated to an application taught by the combination of Combs et al., Yoshimura et al. and Watt.

One of ordinary skill in the art at the time the invention was made would have been motivated to provide power management in a multi-server environment (Fung – Page 1, ¶ [0002]).

As to Claim 69, the combination of Combs et al., Yoshimura et al., Watt and Fung discloses the method of claim 68, further comprising:

if a suspend script is executed on the server, determining whether the server should be powered off based on consulting a power management rule (Fung - ¶ [0134] recites placing the service into the Mode 3 state; Page 3, ¶ [0027] recites the decision to place a server into Mode 3); and

powering off the server if it determined that the server should be powered off (Fung - ¶ [0134] recites placing the service into the Mode 3 state).

The motivation and obviousness arguments are the same as in Claim 68.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G. Keehn whose telephone number is 571-270-5007. The examiner can normally be reached on Monday through Thursday, 9:00am - 8:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571-272-3913. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RGK

/Ashok B. Patel/

Primary Examiner, Art Unit 2456